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IEEE JNL IEEE Journal or Magazine

IEEE JNL IEEE Journal or Magazine

IEEE CNF IEEE Conference Proceeding

IEEE CNF IEEE Conference Proceeding

IEEE STD IEEE Standard

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# ***STIC Search Report***

## ***EIC 2100***

**STIC Database Tracking Number: 155552**

**TO: Susan Chen**  
**Location: RND 3D25**  
**Art Unit : 2161**  
**Tuesday, June 07, 2005**

**Case Serial Number: 09/549667**

**From: Carol Wong**  
**Location: EIC 2100**  
**RND 4A30**  
**Phone: 272-3513**

**carol.wong@uspto.gov**

### **Search Notes**

Dear Examiner Chen,

Attached are the search results (from commercial databases) for your case.

Color tags mark the patents/articles which appear to be most relevant to the case -- all are applicant's patents.

Please call if you have any questions or suggestions for additional terminology, or a different approach to searching the case.

Thanks,  
Carol



File 348:EUROPEAN PATENTS 1978-2005/Jun W01  
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File 349:PCT FULLTEXT 1979-2005/UB=20050602,UT=20050526  
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File 324:German Patents Fulltext 1967-200521  
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Set	Items	Description
S1	1961275	REQUEST? OR QUERY? OR QUERIE? ? OR INQUIR? OR ENQUIR? OR Q- UESTION? OR RETRIEV?
S2	103504	S1(3N) (INFORMATION OR DATA OR OBJECT? ? OR CONTENT? ? OR E- CONTENT? ? OR TEXTDATA OR TEXT? ? OR TEXTUAL)
S3	1322737	FREQUEN? OR OFTEN OR RECUR? OR REOCCUR? OR RE() (OCCUR??? ? OR OCCUREN? OR OCCURR? OR CUR??? ? OR CUREN? OR CURR??? ? OR - CURREN?)
S4	215	RE() (CURRENT? OR CURRENC?)
S5	51803	S3:S4(3N) (SELECT???? ? OR CHOOS? OR CHOICE? OR PICK OR PIC- KS OR PICKED OR PICKING OR OPT OR OPTS OR OPTED OR OPTING)
S6	2634665	LIKE???? ? OR COGNATE? OR AKIN? OR ASSOCIAT? OR AFFILIAT? - OR HOMOLOG? OR KINDRED? OR ALLIED
S7	3471131	SIMILAR? OR RELAT???? ? OR RELATIONSHIP? OR ALIKE OR CONNE- CT???? ? OR ALIKE OR HOMOGEN? OR MATCH?
S8	318957	S6:S7(3N) (STRENGTH? OR STRONG? OR ROBUST? OR POWER? OR VIG- OR? OR FORCE? OR POTENT OR VIGOR? OR STALWART?)
S9	448962	S6:S7(3N) (VALUE? ? OR CALCULAT? OR MEASUR??? ? OR MEASUREM- ENT? OR COMPUTAT? OR COMPUT??? ? OR ASSESSMENT? OR ASSESS??? ? OR APPRAIS?)
S10	345961	S6:S7(3N) (DETERMIN? OR DET? ? OR QUANTIF? OR DERIV??? ? OR DERIVATION? OR GENERAT???? ? OR EVALUAT? OR QUANTITAT? OR QUA- NTIS? OR QUANTIZ?)
S11	59550	S6:S7(3N) (ANALYS? OR ANALYT? OR ANALYZ?)
S12	117	S2(20N)S5
S13	3	S12(20N)S8:S11
S14	1122	S5(20N)S8:S11
S15	17070	IC='G06F-017/30':IC='G06F-017/32'
S16	10	S14 AND S15
S17	8	S16 NOT S13

? t17/5,k/1-4,8

17/5,K/1 (Item 1 from file: 348)  
DIALOG(R)File 348:EUROPEAN PATENTS  
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01826985

**Document retrieval apparatus**  
**Dokumentwiederauffindungsvorrichtung**  
**Appareil de recouvrement de documents**  
PATENT ASSIGNEE:

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Kamifukuoka-shi Saitama, (JP)  
Hashimoto, Kazuo KDDI R&D Laboratories Inc., 1-15 Ohara 2-chome,  
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PATENT (CC, No, Kind, Date): EP 1486891 A2 041215 (Basic)  
EP 1486891 A3 050309

APPLICATION (CC, No, Date): EP 2004022290 980211;

PRIORITY (CC, No, Date): JP 9741429 970212; JP 9767496 970306

DESIGNATED STATES: DE; FR; GB

RELATED PARENT NUMBER(S) - PN (AN):

EP 859330 (EP 98301003)

INTERNATIONAL PATENT CLASS: G06F-017/30

ABSTRACT EP 1486891 A2

A document retrieval apparatus is connected to the network, and comprises a cluster database (122) for storing a cluster of node information linked for clustering the documents to a hierarchical tree structure based on degree of similarity in all documents. The apparatus can post to the posted end address in the node information encountered on the way to follow links of the cluster by means of the cluster database when the document is updated. Also, the apparatus selects the specific number of documents, assigns non-selected documents respectively to a leaf node to be similar to the documents in the cluster, and indicates to repeat recursively the said operations toward a direction of the leaf node of cluster.

ABSTRACT WORD COUNT: 118

NOTE:

Figure number on first page: 1

LEGAL STATUS (Type, Pub Date, Kind, Text):

Application: 041215 A2 Published application without search report

Examination: 041215 A2 Date of request for examination: 20041005

Search Report: 050309 A3 Separate publication of the search report

Change: 050420 A2 Inventor information changed: 20050228

Change: 050504 A2 Inventor information changed: 20050317

LANGUAGE (Publication,Procedural,Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	200451	307
SPEC A	(English)	200451	4914
Total word count - document A			5221

Total word count - document B 0  
Total word count - documents A + B 5221

INTERNATIONAL PATENT CLASS: G06F-017/30

...SPECIFICATION of the child nodes, and a route passing through a child node having the high **frequency** table similarity is **selected**. Thus, the cluster with high **similarity** can be **generated**.

The user identifier list stores the user identifiers to be posted when the documents positioned...

17/5,K/2 (Item 2 from file: 348)  
DIALOG(R)File 348:EUROPEAN PATENTS  
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00947222

Document retrieval apparatus

Dokumentwiederauffindungsvorrichtung

Appareil de recouvrement de documents

PATENT ASSIGNEE:

KOKUSAI DENSHIN DENWA CO., LTD, (592872), 3-2, Nishi-shinjuku 2-Chome,  
Shinjuku-ku Tokyo, (JP), (applicant designated states: DE;FR;GB)

INVENTOR:

Aoki, Keiko, c/o KDDI R&D Laboratories Inc. 1-15 Ohara 2-chome,  
Kamifukuoka-shi Saitama, (JP)

Matsumoto, Kazunori, c/o KDDI R&D Laboratories Inc. 1-15 Ohara 2-chome,  
Kamifukuoka-shi Saitama, (JP)

Hashimoto, Kazuo c/o KDDI R&D Laboratories Inc., 1-15 Ohara 2-chome,  
Kamifukuoka-shi Saitama, (JP)

LEGAL REPRESENTATIVE:

Skone James, Robert Edmund (50281), GILL JENNINGS & EVERY Broadgate House  
7 Eldon Street, London EC2M 7LH, (GB)

PATENT (CC, No, Kind, Date): EP 859330 A1 980819 (Basic)

APPLICATION (CC, No, Date): EP 98301003 980211;

PRIORITY (CC, No, Date): JP 9741429 970212; JP 9767496 970306

DESIGNATED STATES: DE; FR; GB

RELATED DIVISIONAL NUMBER(S) - PN (AN):

(EP 2004022290)

INTERNATIONAL PATENT CLASS: G06F-017/30

ABSTRACT EP 859330 A1

A document retrieval apparatus is connected to the network, and comprises a cluster database (122) for storing a cluster of node information linked for clustering the documents to a hierarchical tree structure based on degree of similarity in all documents. The apparatus can post to the posted end address in the node information encountered on the way to follow links of the cluster by means of the cluster database when the document is updated. Also, the apparatus selects the specific number of documents, assigns non-selected documents respectively to a leaf node to be similar to the documents in the cluster, and indicates to repeat recursively the said operations toward a direction of the leaf node of cluster.

ABSTRACT WORD COUNT: 118

LEGAL STATUS (Type, Pub Date, Kind, Text):

Examination: 040630 A1 Date of dispatch of the first examination  
report: 20040514

Application: 980819 A1 Published application (A1with Search Report  
;A2without Search Report)

Change: 050504 A1 Inventor information changed: 20050316

Change: 041110 A1 Application number of divisional application  
(Article 76) changed: 20040922  
Change: 050420 A1 Inventor information changed: 20050228  
Examination: 980819 A1 Date of filing of request for examination:  
980227

Change: 990506 A1 Designated Contracting States (change)  
LANGUAGE (Publication,Procedural,Application): English; English; English  
FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	9834	1141
SPEC A	(English)	9834	5028
Total word count - document A			6169
Total word count - document B			0
Total word count - documents A + B			6169

INTERNATIONAL PATENT CLASS: G06F-017/30

...SPECIFICATION of the child nodes, and a route passing through a child node having the high **frequency** table similarity is **selected** . Thus, the cluster with high **similarity** can be **generated** .  
The user identifier list stores the user identifiers to be posted when the documents positioned...

17/5,K/3 (Item 1 from file: 349)  
DIALOG(R)File 349:PCT FULLTEXT  
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01179015 \*\*Image available\*\*

**PRESENTATION OF DATA USING META-MORPHING**

**PRESENTATION DE DONNEES PAR METAMORPHAGE**

Patent Applicant/Assignee:

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(Nationality), (For all designated states except: US)

Patent Applicant/Inventor:

MIDDELFART Morten, Eventyrparken 17, DK-9800 Hjørring, DK, DK (Residence)  
, DK (Nationality), (Designated only for: US)

Legal Representative:

ZACCO DENMARK A S (agent), Hans Bekkevolds Alle 7, DK-Hellerup 2900, DK,  
Patent and Priority Information (Country, Number, Date):

Patent: WO 2004102416 A2-A3 20041125 (WO 04102416)

Application: WO 2004DK347 20040517 (PCT/WO DK04000347)

Priority Application: EP 2003388037 20030515; US 2003449811 20030529

Designated States:

(All protection types applied unless otherwise stated - for applications  
2004+)

AE AG AL AM AT AU AZ BA BB BG BR BW BY BZ CA CH CN CO CR CU CZ DE DK DM  
DZ EC EE EG ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC  
LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NA NI NO NZ OM PG PH PL PT RO  
RU SC SD SE SG SK SL SY TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW  
(EP) AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LU MC NL PL PT RO  
SE SI SK TR  
(OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG  
(AP) BW GH GM KE LS MW MZ NA SD SL SZ TZ UG ZM ZW  
(EA) AM AZ BY KG KZ MD RU TJ TM

Main International Patent Class: G06F-017/30

Publication Language: English

Filing Language: English

Fulltext Availability:

Detailed Description

Claims

Fulltext Word Count: 10501

#### English Abstract

A computer-implemented method of making a presentation of data requested by a question received via a user interface of a database, wherein data items are categorized as measures of dimensions, and in which question data items of the type measures of dimensions can be associated to specify a set of data; the method comprises the following steps; parsing (301) the question for associations of dimensions and measures, if no association is found, create an association (307); searching (311) for presentation properties of stored associations; if presentation properties are found applying (313) the presentation properties to make a presentation of data specified by the association. Thereby, a user can request a computer presentation of data that a user's preferences are applied. Additionally, a computer-readable medium, a computer program product and a user-interface is disclosed.

#### French Abstract

La presente invention concerne un procede informatise qui permet d'effectuer une presentation de donnees demandees dans une question recue via une interface utilisateur d'une base de donnees dans laquelle les articles de donnees sont classes comme des mesures ou des dimensions, les articles de donnees du type mesure ou dimension de la question pouvant etre associes afin de specifier un ensemble de donnees. Le procede de l'invention comprend les etapes suivantes : on analyse (301) d'abord la question afin de trouver de quelconques associations de dimensions et de mesures et si aucune association n'est trouvee, on cree une association (307) ; on recherche (311) les proprietes de presentation des associations stockees ; si les proprietes de presentation ont ete trouvees, on applique (313) lesdites proprietes de presentation afin d'effectuer une presentation de donnees specifiee par l'association. De cette maniere, un utilisateur peut demander une presentation informatique des donnees sur la base de niveaux plus ou moins eleves d'abstraction tandis que l'ordinateur veille a ce que les preferences d'un utilisateur soient appliquees. L'invention se rapporte en outre a un support lisible par ordinateur, a un progiciel informatique et a une interface utilisateur.

#### Legal Status (Type, Date, Text)

Publication 20041125 A2 Without international search report and to be republished upon receipt of that report.

Search Rpt 20041229 Late publication of international search report

Republication 20041229 A3 With international search report.

Republication 20041229 A3 Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.

Main International Patent Class: G06F-017/30

Fulltext Availability:

Detailed Description

#### Detailed Description

... a data item of the measures type or the dimensions type or since it is **selected** as a most **frequently** used association. A preferred embodiment of step 308 is described in more detail in connection with fig. 3 especially, **determining** an **association** is described in connection with section 309.

When an association is determined, presentation properties of...



17/5,K/4 (Item 2 from file: 349)  
DIALOG(R)File 349:PCT FULLTEXT  
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01177964 \*\*Image available\*\*

**CONTENT PERFORMANCE ASSESSMENT OPTIMIZATION FOR SEARCH LISTINGS IN A WIDE  
AREA NETWORK SEARCHES**

**CONTENU D'OPTIMISATION D'ESTIMATION DE PERFORMANCE POUR LISTES DE RECHERCHE  
DANS DES RECHERCHES SUR RESEAU ETENDU**

Patent Applicant/Assignee:

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Patent Applicant/Inventor:

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BIGGS Jody D, 2933 Stevens Street, La Crescenta, CA 91214, US, US  
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Legal Representative:

IVEY James D (agent), Law Offices of James D. Ivey, 3025 Totterdell  
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Patent and Priority Information (Country, Number, Date):

Patent: WO 2004100022 A1 20041118 (WO 04100022)  
Application: WO 2004US13229 20040430 (PCT/WO US04013229)  
Priority Application: US 2003429208 20030502

Designated States:

(All protection types applied unless otherwise stated - for applications  
2004+)

AE AG AL AM AT AU AZ BA BB BG BR BW BY BZ CA CH CN CO CR CU CZ DE DK DM  
DZ EC EE EG ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC  
LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NA NI NO NZ OM PG PH PL PT RO  
RU SC SD SE SG SK SL SY TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW  
(EP) AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LU MC NL PL PT RO  
SE SI SK TR  
(OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG  
(AP) BW GH GM KE LS MW MZ NA SD SL SZ TZ UG ZM ZW  
(EA) AM AZ BY KG KZ MD RU TJ TM

Main International Patent Class: G06F-017/30

Publication Language: English

Filing Language: English

Fulltext Availability:

Detailed Description

Claims

Fulltext Word Count: 12444

English Abstract

A system and method for improving the relevance of search results given  
by, and favorable user experience with, a search engine by automatically  
detecting and removing search listings which are unusually infrequently  
selected by users from among other search listings. Data representing  
presentation of individual search listings as part of search results and  
data representing selection of such search listing by a user are  
accumulated and analyzed to evaluate performance of the search listing.  
Rates of selection of search listings are compared to rates of selections  
of search listings in similar and different positions within search

results sets. Search listings with unusually low selection rates are marked from removal from the search database. An owner of the search listing can be provided with an opportunity to modify the search listing and the modified search listing is similarly monitored for low performance.

#### French Abstract

L'invention concerne un systeme et un procede d'amelioration de la pertinence de resultats de recherche donnees, et selon l'experience positive d'un utilisateur avec un moteur de recherche, par detection et elimination automatique de listes de recherche qui sont selectionnees par des utilisateurs de facon inhabituellement rare, parmi d'autres listes de recherche. Des donnees representant une representation de listes de recherches individuelles faisant partie de resultats de recherche et des donnees representant une selection d'une telle liste de recherches par un utilisateur sont accumulees et analysees pour evaluer la performance de la liste de recherches. Les taux de selection de listes de recherches sont compares a des taux de selection de listes de recherches dans des positions similaires et differentes a l'interieur d'ensembles de resultats de recherches. Les listes de recherche presentant des taux de selection tres bas sont marquees afin d'etre eliminees de la base de donnees de recherches. Le proprietaire d'une liste de recherches peut avoir l'opportunit  de modifier la liste de recherches et la liste de recherches modifiee est controlee de maniere similaire afin de detecter une performance faible.

Legal Status (Type, Date, Text)

Publication 20041118 A1 With international search report.

Publication 20041118 A1 Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.

Main International Patent Class: G06F-017/30

Fulltext Availability:

Detailed Description

#### Detailed Description

... identify generally irrelevant and/or undesirable search listings for automatic optimization or removal. Performance is **measured** as a **relationship** between the manner in which the search listing is presented to the user and the **frequency** of **selection** of the search listing relative to either all other search listings and/or other search...

...of performance are used. One is absolute

-- Pa,ae 3 of 36

performance. Another is **relative** performance. Absolute performance **measures** the **frequency** of **selection** of a particular search listing compared to an expected **frequency** of **selection** of any search listing at a similar position within a set of search results of a given length. **Relative** performance **measures** the **frequency** of **selection** of a particular search listing within a set of search results relative to the **frequency** of **selection** of other search listings in the set in comparison to expected relative **selection frequencies**. **Selection frequencies** are sometimes referred to herein as click-through rates.

The expected **relative selection frequencies** are derived from past performance data both generally among all search listings served as results for all...

17/5,K/8 (Item 6 from file: 349)  
DIALOG(R)File 349:PCT FULLTEXT  
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00846375 \*\*Image available\*\*

**USAGE BASED STRENGTH BETWEEN RELATED INFORMATION IN AN INFORMATION  
RETRIEVAL SYSTEM**

**INTENSITE DE RELATION LIEE A L'USAGE ENTRE DES INFORMATIONS D'UN SYSTEME  
D'EXTRACTION DE DONNEES**

Patent Applicant/Assignee:

RIGHTNOW TECHNOLOGIES INC, 77 Discovery Drive, P.O. Box 9300, Bozeman, MT  
59718-9300, US, US (Residence), US (Nationality)

Inventor(s):

WARNER Douglas K, 9717 Cougar Drive, Bozeman, MT 59718, US,  
MYER Michael A, 3011 Trail Creek Road, Bozeman, MT 59715, US,

Legal Representative:

VIETZKE Lance L (et al) (agent), Dorsey & Whitney LLP, Suite 4700, 370  
17th Street, Denver, CO 80202-5647, US,

Patent and Priority Information (Country, Number, Date):

Patent: WO 200180081 A2-A3 20011025 (WO 0180081)

Application: WO 2001US11066 20010405 (PCT/WO US0111066)

Priority Application: US 2000549568 20000414

Designated States:

(Protection type is "patent" unless otherwise stated - for applications  
prior to 2004)

AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CR CU CZ DE DK DM DZ EE  
ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT  
LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM  
TR TT TZ UA UG UZ VN YU ZA ZW

(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR

(OA) BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG

(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZW

(EA) AM AZ BY KG KZ MD RU TJ TM

Main International Patent Class: G06F-017/30

Publication Language: English

Filing Language: English

Fulltext Availability:

Detailed Description

Claims

Fulltext Word Count: 6359

**English Abstract**

An information retrieval system allows a user to navigate through a plurality of informational items for a desired informational items, and upon selection of an information item, presents other informational items related to the selected informational item. The information retrieval system in accordance with the principles of the present invention maintains a database that defines a relational association between a plurality of informational items in the system. The relational association is based on historical navigational behavior of users of the information retrieval system, and includes a relationship type, which is based on the characteristic similarities between the informational items, and relationship strength, which is based on the historical frequency of any related informational items being selected by a user within the same information retrieval session. When a navigation from one informational item to another information item is detected, the relationship type and the relationship strength of the two informational items are determined and stored in the database. During a subsequent selection of an informational item, any related informational items related to the selected informational item are sorted based on the respective relationship types and relationship strengths, and are provided in a

sorted list from which the user can select.

#### French Abstract

Un systeme d'extraction d'informations permet a un utilisateur de naviguer parmi une pluralite d'elements d'information a la recherche d'un element d'information souhaite, et lors de la selection d'un element d'information, ledit systeme presente d'autres elements d'information associes a l'element d'information selectionne. Conformement a la presente invention, le systeme d'extraction de donnees gere une base de donnees qui definit une association relationnelle entre plusieurs elements d'information du systeme. Cette association relationnelle est fondee sur le comportement de navigation historique des utilisateurs du systeme d'extraction d'informations, et elle est associee a un type de relation, qui est fondee sur des similitudes de caracteristiques entre les elements d'information, et a une intensite de relation, qui est fondee sur la frequence historique de tous les elements d'information associes et selectionnes par un utilisateur au cours d'une meme session d'extraction d'informations. Lorsque la navigation d'un element d'information vers un autre element d'information est detectee, le type de relation et l'intensite de relation entre les deux elements d'information sont determines et enregistres dans la base de donnees. Au cours d'un selection ulterieure d'un element d'information, tous les elements d'information associes a l'element d'information selectionne sont tries sur la base des types de relations et des intensites de relations respectifs, et ils sont ranges dans une liste trie dans laquelle l'utilisateur peut faire sa selection. Dans une autre realisation de l'invention, le systeme d'extraction d'informations est utilise dans un systeme d'extraction d'informations d'assistance de maniere a fournir une representation dynamique sensible au contexte des elements d'information d'assistance. Le systeme d'extraction d'informations de cette invention permet une extraction economique et facile d'un element d'information souhaite et permet d'influencer favorablement l'investissement en temps et en effort effectue au cours de sessions d'extraction d'informations precedentes.

#### Legal Status (Type, Date, Text)

Publication	20011025	A2	Without international search report and to be republished upon receipt of that report.
Examination	20020321		Request for preliminary examination prior to end of 19th month from priority date
Search Rpt	20030206		Late publication of international search report
Republication	20030206	A3	With international search report.
Search Rpt	20030206		Late publication of international search report
Correction	20030306		Corrected version of Pamphlet: international search report added (4 pages)
Republication	20030306	A3	With international search report.

Main International Patent Class: G06F-017/30

Fulltext Availability:  
Detailed Description

#### Detailed Description

... characteristic similarities between the first infonnational item and the

2

second infonnational item, assigning a **relationship strength** based on historical **frequency** of the consecutive **selection** of the first infonnational item and the second infonnational item, and providing an access to the...

?

*Applicant*

13/5,K/1 (Item 1 from file: 349)  
DIALOG(R)File 349:PCT FULLTEXT  
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00921129

**AUTOMATED ADAPTIVE CLASSIFICATION SYSTEM FOR BAYESIAN KNOWLEDGE NETWORKS**  
**SYSTEME AUTOMATIQUE DE CLASSIFICATION ADAPTIVE POUR RESEAUX DE**  
**CONNAISSANCES BAYESIEN**

Patent Applicant/Assignee:

RIGHTNOW TECHNOLOGIES, 77 Discovery Drive, Bozeman, MT 59718-9300, US, US  
(Residence), US (Nationality)

Inventor(s):

RICHTER James Neal, 8605 Ricky Drive, Bozeman, MT 59718, US,  
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PRABU Ganesh, 77 Discovery Drive, Bozeman, MT 59718, US,

Legal Representative:

KIRCHER William B (et al) (agent), Shook, Hardy & Bacon L.L.P., One  
Kansas City Place, 1200 Main Street, Kansas City, MO 64105-2118, US,

Patent and Priority Information (Country, Number, Date):

Patent: WO 200254288 A1 20020711 (WO 0254288)  
Application: WO 2001US46907 20011207 (PCT/WO US0146907)  
Priority Application: US 2000751934 20001229

Designated States:

(Protection type is "patent" unless otherwise stated - for applications  
prior to 2004)

AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ  
EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR  
LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT RO RU SD SE SG SI  
SK SL TJ TM TR TT TZ UA UG UZ VN YU ZA ZM ZW  
(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR  
(OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG  
(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZM ZW  
(EA) AM AZ BY KG KZ MD RU TJ TM

Main International Patent Class: G06F-017/30

International Patent Class: G06F-017/00

Publication Language: English

Filing Language: English

Fulltext Availability:

Detailed Description

Claims

Fulltext Word Count: 5863

English Abstract

A method and apparatus for use in an information retrieval system which derives related informational items that have a usage based relationship strength and results in a more dynamic relationship association between informational items. The system comprises the steps and means for detecting a selection of at least a first and second informational items in an **information retrieval** session. A **relationship** type and **strength** are assigned based on the characteristic similarities and the **frequency** of **selection** of the first and second informational items. Also in accordance with the principles of the present invention, the extraction of textual database fields; the application of multiple text classification algorithms; the merging of the algorithm results; the encoding of the merged results as a Bayesian-type link; the use of feedback methods to weight, prune and age the relationship link serves to automate and enhance the process of classification in the system.

French Abstract

L'invention concerne un procede et un appareil utilises dans un systeme

*Applicant*

d'extraction d'informations qui deduit des articles d'information associes possedant un degre relationnel base sur l'usage, et entraine une association de relations plus dynamique entre lesdits articles d'information. Le systeme comprend des moyens permettant de detecter une selection d'au moins un premier et un second articles d'information dans une session d'extraction d'informations. Un type et un degre de relation sont attribues en fonction de similarites caracteristiques et de la frequence de selection des premier et second articles d'information. Selon les principes de l'invention, l'extraction de champs de base de donnees textuelles, l'application de multiples algorithmes de classification textuelle, la fusion des resultats algorithmiques, le codage des resultats fusionnes sous forme de liaison de type bayesien, l'utilisation de procedes de retroaction pour ponderer, elaguer et determiner l'anciennete de la liaison de relation permettent d'automatiser et d'ameliorer le processus classification dans le systeme.

Legal Status (Type, Date, Text)

Publication 20020711 A1 With international search report.

English Abstract

...for detecting a selection of at least a first and second informational items in an **information retrieval** session. A **relationship** type and **strength** are assigned based on the characteristic similarities and the **frequency** of **selection** of the first and second informational items. Also in accordance with the principles of the...

13/5,K/2 (Item 2 from file: 349)

DIALOG(R)File 349:PCT FULLTEXT

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00846374 \*\*Image available\*\*

**USAGE BASED STRENGTH BETWEEN RELATED HELP TOPICS AND CONTEXT BASED MAPPING THEREOF IN A HELP INFORMATION RETRIEVAL SYSTEM**

**DEGRE DE RAPPORT BASE SUR L'UTILISATION ENTRE DES SUJETS D'AIDE APPARENTES ET LEUR MAPPAGE BASE SUR LE CONTEXTE DANS UN SYSTEME D'EXTRACTION D'INFORMATIONS D'AIDE**

Patent Applicant/Assignee:

RIGHTNOW TECHNOLOGIES INC, 77 Discovery Drive, P.O. Box 9300, Bozeman, MT 59718-9300, US, US (Residence), US (Nationality)

Inventor(s):

WARNER Douglas K, 9717 Cougar Drive, Bozeman, MT 59718, US,  
MYER Michael A, 3011 Trail Creek Road, Bozeman, MT 59715, US,

Legal Representative:

VIETZKE Lance L (et al) (agent), Dorsey & Whitney LLP, Suite 4700, 370 17th Street, Denver, CO 80202-5647, US,

Patent and Priority Information (Country, Number, Date):

Patent: WO 200180080 A2-A3 20011025 (WO 0180080)

Application: WO 2001US11065 20010405 (PCT/WO US0111065)

Priority Application: US 2000549667 20000414

Designated States:

(Protection type is "patent" unless otherwise stated - for applications prior to 2004)

AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CR CU CZ DE DK DM DZ EE  
ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT  
LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM  
TR TT TZ UA UG UZ VN YU ZA ZW

(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR

(OA) BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG

(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZW  
(EA) AM AZ BY KG KZ MD RU TJ TM

Main International Patent Class: G06F-017/30

Publication Language: English

Filing Language: English

Fulltext Availability:

Detailed Description

Claims

Fulltext Word Count: 7392

#### English Abstract

An information retrieval system allows a user to navigate through a plurality of informational items for a desired informational item, and upon selection of an informational item, presents other informational items related to the selected informational item. The information retrieval system in accordance with the principles of the present invention maintains a database that defines a relational association between a plurality of informational items in the system. The relational association is based on historical navigational behavior of users of the information retrieval system, and includes a relationship type, which is based on the characteristic similarities between the informational items, and relationship strength, which is based on the historical frequency of any related informational items being selected by a user within the same information retrieval session. When a navigation from one informational item to another information item is detected, the relationship type and the relationship strength of the two informational items are determined and stored in the database. During a subsequent selection of an informational item, any related informational items related to the selected informational item are sorted based on the respective relationship types and relationship strengths, and are provided in a sorted list from which the user can select.

#### French Abstract

Un systeme d'extraction d'informations permet a un utilisateur de naviguer dans une pluralite d'articles informationnels pour trouver un article informationnel voulu, et lors de la selection d'un article d'information, il presente d'autres articles informationnels lies a l'article informationnel selectionne. Le systeme d'extraction d'informations selon les principes de la presente invention actualise une base de donnees laquelle definit une association relationnelle entre une pluralite d'articles informationnels dans le systeme. L'association relationnelle est basee sur le comportement historique de navigation d'utilisateurs du systeme d'extraction d'informations, et elle comprend un type de rapport, lequel est base sur les similitudes caracteristiques entre les articles informationnels, et le degre de rapport, lequel est base sur la frequence historique de n'importe quel article informationnel apparemment choisi par un utilisateur dans la meme session d'extraction d'informations. Lorsqu'une navigation a partir d'un article informationnel vers un autre article d'information est detectee, le type de rapport et le degre de rapport des deux articles informationnels sont determines et stockes dans la base de donnees. Pendant une selection ulterieure d'un article informationnel, tous les articles informationnels apparentes lies a l'article informationnel selectionne sont tries sur la base des types de rapport et des degres de rapport respectifs, et ils sont fournis dans une liste trieée dans laquelle l'utilisateur peut effectuer une selection. Dans un aspect de la presente invention, le systeme d'extraction d'informations est utilise dans un systeme d'extraction d'informations d'aide afin de fournir un mappage dynamique reagissant au contexte d'articles informationnels d'aide. Le systeme d'extraction d'informations de l'invention selon les principes de la presente invention fournit une extraction pratique et economique de

l'article informationnel voulu, tout en exerçant un effet de levier sur l'investissement en temps et en effort effectuée pendant des sessions préalables d'extraction d'informations.

Legal Status (Type, Date, Text)

Publication 20011025 A2 Without international search report and to be republished upon receipt of that report.

Examination 20020321 Request for preliminary examination prior to end of 19th month from priority date

Search Rpt 20030213 Late publication of international search report

Republication 20030213 A3 With international search report.

Fulltext Availability:

Detailed Description

Claims

Detailed Description

... of help

2

informational items, and the one or more record entries each including an **associated relationship strength value** based on historical **frequency of selection** of the respective corresponding ones of the plurality of help informational items during a help **information retrieval** session initiated from the originating locations, upon detection of a user initiation of a help...

... of help informational items, and the one or 1 3 more record entries each including an **associated relationship strength value** based on historical 1 4 **frequency of selection** of respective the corresponding ones of the plurality of help informational items 1 5 during a help **information retrieval** session initiated from the originating locations.

1 6 Also, in accordance with the principles of the...

Claim

... said. plurality of help informational items, and said one or more record entries each including an **associated relationship strength value** based on historical **frequency of selection** of respective said corresponding ones of said plurality of help informational items during a help **information**

**retrieval** session initiated from said originating locations;

1 0 upon detection of a user initiation of... 3 plurality of help informational items, and said one or more record entries each including an **associated 1 4 relationship strength value** based on historical **frequency of selection** of respective said corresponding 1 5 ones of said plurality of help informational (inverted exclamation mark) items during a help **information retrieval** session initiated from 1 6 said originating locations.

1 7

1 8 22. The information...

13/5,K/3 (Item 3 from file: 349)

DIALOG(R) File 349:PCT FULLTEXT

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00802534

ANY-TO-ANY COMPONENT COMPUTING SYSTEM

SYSTEME INFORMATIQUE A COMPOSANTS TOUTE CATEGORIE

*Applicant*



Patent Applicant/Assignee:

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Patent Applicant/Inventor:

WARREN Peter, 1200 Mountain Creek Road, Suite 440, Chattanooga, TN 37405, US, GB (Residence), GB (Nationality), (Designated only for: US)

LOWE Steven, 1625 Starboard Drive, Hixson, TN 37343, US, US (Residence), US (Nationality), (Designated only for: US)

Legal Representative:

MEHRMAN Michael J (agent), Paper Mill Village, Building 23, 600 Village Trace, Suite 300, Marietta, GA 30067, US,

Patent and Priority Information (Country, Number, Date):

Patent: WO 200135216 A2-A3 20010517 (WO 0135216)

Application: WO 2000US31231 20001113 (PCT/WO US0031231)

Priority Application: US 99164884 19991112

Designated States:

(Protection type is "patent" unless otherwise stated - for applications prior to 2004)

AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CR CU CZ DE DK DM DZ EE  
ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT  
LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM  
TR TT TZ UA UG US UZ VN YU ZA ZW

(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR

(OA) BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG

(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZW

(EA) AM AZ BY KG KZ MD RU TJ TM

Main International Patent Class: G06F-009/44

International Patent Class: G06F-017/22

Publication Language: English

Filing Language: English

Fulltext Availability:

Detailed Description

Claims

Fulltext Word Count: 275671

English Abstract

A universal data and software structure and method for an Any-to-Any computing machine in which any number of any components can be related to any number of any other components in a manner that is not intrinsically hierarchical and is intrinsically unlimited. The structure and method includes a Concept Hierarchy; each concept or assembly of concepts is uniquely identified and assigned a number in a Numbers Concept Language or uniquely identified in a Non-numbers Concept Language. Each Component or assembly of Components is intrinsically related to all other data items that contain common or related components.

French Abstract

L'invention concerne une structure de donnees et de logiciel universelle ainsi qu'un procede de machine informatique toute categorie dans laquelle des composants, quels qu'ils soient et quel que soit leur nombre, peuvent etre rattaches a d'autres composants, quels qu'ils soient et quel que soit leur nombre, d'une maniere intrinsequement non hierarchisee et intrinsequement illimitee. La structure et le procede comportent une hierarchie conceptuelle; chaque concept ou ensemble de concepts est identifie de maniere unique et recoit un numero dans un langage conceptuel de nombres ou dans un langage conceptuel de non-nombres. Chaque composant ou ensemble de composants est intrinsequement rattache a tous les autres elements de donnees qui contiennent des composants communs ou associes.

Legal Status (Type, Date, Text)

Publication 20010517 A2 Without international search report and to be  
republished upon receipt of that report.

Search Rpt 20020808 Late publication of international search report

Republication 20020808 A3 With international search report.

Fulltext Availability:

Claims

Claim

... efficient provided that the storage medium such as the database  
described herein, stores both Data **Relation** Records and Continuous-NCL  
in the same format, so that relationships of components can be...

File 347:JAPIO Nov 1976-2005/Jan(Updated 050506)  
(c) 2005 JPO & JAPIO  
File 350:Derwent WPIX 1963-2005/UD,UM &UP=200535  
(c) 2005 Thomson Derwent  
File 344:Chinese Patents Abs Aug 1985-2005/May  
(c) 2005 European Patent Office  
File 371:French Patents 1961-2002/BOPI 200209  
(c) 2002 INPI. All rts. reserv.

Set	Items	Description
S1	332947	REQUEST? OR QUERY? OR QUERIE? ? OR INQUIR? OR ENQUIR? OR Q- UESTION? OR RETRIEV?
S2	105198	S1(3N) (INFORMATION OR DATA OR OBJECT? ? OR CONTENT? ? OR E- CONTENT? ? OR TEXTDATA OR TEXT? ? OR TEXTUAL)
S3	907078	FREQUEN? OR OFTEN OR RECUR? OR REOCCUR? OR RE() (OCCUR??? ? OR OCCUREN? OR OCCURR? OR CUR??? ? OR CUREN? OR CURR??? ? OR - CURREN?)
S4	18	RE() (CURRENT? OR CURRENC?)
S5	23959	S3:S4(3N) (SELECT???? ? OR CHOOS? OR CHOICE? OR PICK OR PIC- KS OR PICKED OR PICKING OR OPT OR OPTS OR OPTED OR OPTING)
S6	1441613	LIKE???? ? OR COGNATE? OR AKIN? OR ASSOCIAT? OR AFFILIAT? - OR HOMOLOG? OR KINDRED? OR ALLIED
S7	5264010	SIMILAR? OR RELAT???? ? OR RELATIONSHIP? OR ALIKE OR CONNE- CT???? ? OR ALIKE OR HOMOGEN? OR MATCH?
S8	182781	S6:S7(3N) (STRENGTH? OR STRONG? OR ROBUST? OR POWER? OR VIG- OR? OR FORCE? OR POTENT OR VIGOR? OR STALWART?)
S9	179901	S6:S7(3N) (VALUE? ? OR CALCULAT? OR MEASUR??? ? OR MEASUREM- ENT? OR COMPUTAT? OR COMPUT??? ? OR ASSESSMENT? OR ASSESS??? ? OR APPRAIS?)
S10	135532	S6:S7(3N) (DETERMIN? OR DET? ? OR QUANTIF? OR DERIV??? ? OR DERIVATION? OR GENERAT???? ? OR EVALUAT? OR QUANTITAT? OR QUA- NTIS? OR QUANTIZ?)
S11	13719	S6:S7(3N) (ANALYS? OR ANALYT? OR ANALYZ?)
S12	149	S2 AND S5
S13	16	S12 AND S8:S11
S14	76556	IC='G06F-017/30':IC='G06F-017/39'
S15	17081	MC='T01-J05B4P'
S16	339	MC='T01-J11C2'
S17	4269	MC=T01-N03A2
S18	11809	MC=T01-J05B3
S19	1228	S5 AND S8:S11
S20	8	S19 AND S14:S18
S21	19	S13 OR S20
S22	19	IDPAT (sorted in duplicate/non-duplicate order)
S23	19	IDPAT (primary/non-duplicate records only)

23/9/1 (Item 1 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
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016813607 \*\*Image available\*\*  
WPI Acc No: 2005-137888/200515  
XRPX Acc No: N05-118339

Search server connected to search client, calculates score of  
retrieval result candidates based on selection frequency and  
presentation frequency of candidates, and accordingly displays  
retrieval result

Patent Assignee: CANON KK (CANO )  
Number of Countries: 001 Number of Patents: 001  
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
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JP 2005043999 A 20050217 JP 2003200691 A 20030723 200515 B

Priority Applications (No Type Date): JP 2003200691 A 20030723

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

JP 2005043999 A 14 G06F-017/30

Abstract (Basic): JP 2005043999 A

NOVELTY - An information gathering unit (301) acquires **selection frequency** and presentation **frequency** related to several **retrieval** result candidates, from **information** server. A calculation unit (303) calculates the score of candidates based on acquired result. A presentation unit displays retrieval result based on calculated score.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the following:

- (1) **information retrieval** method;
- (2) **information retrieval** program; and
- (3) storage medium storing **information retrieval** program.

USE - Connected to information server and search client through network.

ADVANTAGE - Enables to display several **retrieval** result **data** on search client side in high degree order.

DESCRIPTION OF DRAWING(S) - The figure shows the block diagram of search server. (Drawing includes non-English language text).

search server (102)  
information gathering unit (301)  
search implementation unit (302)  
calculation unit (303)  
interaction controller (304)  
pp; 14 DwgNo 3/6

Title Terms: SEARCH; SERVE; CONNECT; SEARCH; CLIENT; CALCULATE; SCORE; RETRIEVAL; RESULT; CANDIDATE; BASED; SELECT; FREQUENCY; PRESENT; FREQUENCY; CANDIDATE; ACCORD; DISPLAY; RETRIEVAL; RESULT

Derwent Class: T01

International Patent Class (Main): G06F-017/30

File Segment: EPI

Manual Codes (EPI/S-X): T01-J05B; T01-S03

23/9/6 (Item 6 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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014708233

WPI Acc No: 2002-528937/200256

XRPX Acc No: N02-418875

Retrieving information items by applying an ensemble of clustering algorithms to a series of accessed information items to create relationship links between the items

Patent Assignee: RIGHTNOW TECHNOLOGIES (RIGH-N)

Inventor: PRABU G; RICHTER J N; WARNER D K

Number of Countries: 098 Number of Patents: 003

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
WO 200254288	A1	20020711	WO 2001US46907	A	20011207	200256 B
GB 2376111	A	20021204	WO 2001US46907	A	20011207	200304
			GB 200220002	A	20020829	
AU 2002225969	A1	20020716	AU 2002225969	A	20011207	200427

Priority Applications (No Type Date): US 2000751934 A 20001229

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

WO 200254288 A1 E 30 G06F-017/30

Designated States (National): AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG UZ VN YU ZA ZM ZW

Designated States (Regional): AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW MZ NL OA PT SD SE SL SZ TR TZ UG ZM ZW

GB 2376111 A G06F-017/30 Based on patent WO 200254288

AU 2002225969 A1 G06F-017/30 Based on patent WO 200254288

Abstract (Basic): WO 200254288 A1

NOVELTY - The type and **strength** of the **relationship** links are assigned based on the characteristic similarities and the **frequency** of **selection** of linked items. Data aging and pruning algorithms are used to modify the **strength** or existence of **relationship** links and the usage of the relationship links is monitored and used as feedback for a **strength** **associated** with the links. The pruning algorithm is used to **determine** whether a recorded **relationship** link should be ignored or placed on a list of bad links.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are included for

(a) a Bayesian-type Belief Network modified by a set of frequently asked questions, a set of relationships between nodes, a weight which describes the **strength** of **relationships** and a network structure

(b) apparatus for classifying information items by creating relationship links between items

(c) a computer readable medium carrying program instructions for classifying information items

(d) and a method for **retrieving** help **information** in a system where information items are not fixedly mapped together by determining an efficient path to locate a help item

USE - In **information** search and **retrieval** systems.

ADVANTAGE - Provides an automated classification process for textual databases which gives convenient and economical **information** **retrieval**.

pp; 30 DwgNo 0/7

Title Terms: RETRIEVAL; INFORMATION; ITEM; APPLY; ENSEMBLE; ALGORITHM;

SERIES; ACCESS; INFORMATION; ITEM; RELATED; LINK; ITEM

Derwent Class: T01

International Patent Class (Main): G06F-017/30

International Patent Class (Additional): G06F-017/00

File Segment: EPI

Manual Codes (EPI/S-X): T01-J05B4P ; T01-N01D2; T01-N03A2 ; T01-S01C;

T01-S03

23/9/7 (Item 7 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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014196963 \*\*Image available\*\*

WPI Acc No: 2002-017660/200202

XRPX Acc No: N02-014075

**Context sensitive mapping provision method for help information retrieval system, involves accessing information items, when help information retrieval session initiation is detected**

Patent Assignee: RIGHTNOW TECHNOLOGIES INC (RIGH-N)

Inventor: MYER M A; WARNER D K

*Applicant*

Number of Countries: 093 Number of Patents: 004

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
WO 200180080	A2	20011025	WO 2001US11065	A	20010405	200202 B
AU 200151328	A	20011030	AU 200151328	A	20010405	200219
GB 2377063	A	20021231	WO 2001US11065	A	20010405	200303
			GB 200223447	A	20021009	
GB 2377063	B	20040526	WO 2001US11065	A	20010405	200435
			GB 200223447	A	20010405	

Priority Applications (No Type Date): US 2000549667 A 20000414

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
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WO 200180080	A2	E	35	G06F-017/30
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Designated States (National): AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CR CU CZ DE DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG UZ VN YU ZA ZW

Designated States (Regional): AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW MZ NL OA PT SD SE SL SZ TR TZ UG ZW

AU 200151328	A			Based on patent WO 200180080
GB 2377063	A		G06F-017/30	Based on patent WO 200180080
GB 2377063	B		G06F-017/30	Based on patent WO 200180080

*applicant*

Abstract (Basic): WO 200180080 A2

NOVELTY - Record entries defining relationships between originating locations of help **request** and corresponding **information** items, and record entries including an **associated strength value** (602), based on historical **frequency** of **selection** of respective items, are stored in a database. When a user initiates help **information retrieval** session, the **matching** record entries are **determined** for accessing the items corresponding to originating location.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the following:

(a) Apparatus for providing context sensitive mapping of help information items;

(b) **Information retrieval** system;

(c) Computer readable storage medium comprising computer program for providing context sensitive mapping of help information items

USE - For providing context sensitive mapping of help information items in **information** search and **retrieval** system.

ADVANTAGE - Provides an efficient and economical retrieval of desired items with less effort and time by mapping and updating help items based on usage behavior, thus reducing time and effort for retrieving.

DESCRIPTION OF DRAWING(S) - The figure shows a user interface screen of the help **information retrieval** system.

Strength value (602)

pp; 35 DwgNo 6/7

Title Terms: CONTEXT; SENSITIVE; MAP; PROVISION; METHOD; HELP; INFORMATION; RETRIEVAL; SYSTEM; ACCESS; INFORMATION; ITEM; HELP; INFORMATION; RETRIEVAL; SESSION; INITIATE; DETECT

Derwent Class: T01

International Patent Class (Main): G06F-017/30

File Segment: EPI

Manual Codes (EPI/S-X): T01-J05B4P ; T01-J11C2 ; T01-N03A2 ; T01-S03

23/9/8 (Item 8 from file: 350)  
DIALOG(R)File 350:Derwent WPIX

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013410491      \*\*Image available\*\*  
WPI Acc No: 2000-582429/200055  
XRPX Acc No: N00-431125

**Document processing method involves setting weighting of selected component at value higher than that of component which is not selected**

Patent Assignee: SONY CORP (SONY )

Number of Countries: 001    Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 2000231565	A	20000822	JP 9931548	A	19990209	200055 B

Priority Applications (No Type Date): JP 9931548 A 19990209

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
JP 2000231565	A		17 G06F-017/30	

Abstract (Basic): JP 2000231565 A

NOVELTY - An electronic document is displayed. The document is processed by input of a component selected based on hierarchy. The weighting of selected component is set as a value higher than that of the component which is not selected.

DETAILED DESCRIPTION - A sentence is selected from the document based on the average of the weighting of the component. An indispensable component is extracted from the selected sentence. A sentence structure is **generated** by **connecting** the indispensable component. The generated sentence structure is output as a summary. INDEPENDENT CLAIMS are also included for the following:

(a) document processing apparatus;

(b) program for document processing

USE - For processing electronic document.

ADVANTAGE - Hierarchy depending on **frequency** of **selection** of component is used, thus summary reflecting user's intention can be produced.

DESCRIPTION OF DRAWING(S) - The figure shows the block diagram of sketchy component of document processing apparatus.

pp; 17 DwgNo 1/12

Title Terms: DOCUMENT; PROCESS; METHOD; SET; WEIGHT; SELECT; COMPONENT; VALUE; HIGH; COMPONENT; SELECT

Derwent Class: T01

International Patent Class (Main): **G06F-017/30**

International Patent Class (Additional): G06F-003/00; G06F-017/27

File Segment: EPI

Manual Codes (EPI/S-X): T01-C; T01-J05B; T01-J11A

**23/9/17      (Item 17 from file: 347)**

DIALOG(R)File 347:JAPIO

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06753455      \*\*Image available\*\*

METHOD AND DEVICE FOR **CALCULATING** DEGREE OF **ASSOCIATION** BETWEEN LINK INFORMATION AND KEYWORD AND RECORDING MEDIUM WITH ITS METHOD STORED THEREIN

PUB. NO.: 2000-339317 [JP 2000339317 A]

PUBLISHED: December 08, 2000 (20001208)

INVENTOR(s): HAYAKAWA KAZUHIRO

INAGAKI HIROTO

TANAKA KAZUO

APPLICANT(s): NIPPON TELEGR & TELEPH CORP (NTT)

APPL. NO.: 11-144834 [JP 99144834]  
FILED: May 25, 1999 (19990525)  
INTL CLASS: G06F-017/30

#### ABSTRACT

PROBLEM TO BE SOLVED: To collect **information requested** by a user preferentially by giving the relationship between link information and a given keyword before collecting the information of a link destination.

SOLUTION: This device inputs at least one piece of link information and a list representing the appearance frequency of a keyword in a memory, selects the one piece of link information, calculates the distance between the selected link information and a selected keyword, calculates a value obtained by dividing the appearance **frequency** of the **selected** keyword by the sum of the distance and a prescribed number as weight, selects another keyword to calculate the distance and weight and outputs the total of weight to all of the keywords as the degree of association between the selected link information and the keywords. It is desirable to decide the position of link information and the distance between the link information and a keyword with the number of characters or the number of words as a unit.

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23/9/18 (Item 18 from file: 347)  
DIALOG(R)File 347:JAPIO  
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06577638 \*\*Image available\*\*  
INFORMATION MANAGEMENT SYSTEM

PUB. NO.: 2000-163429 [JP 2000163429 A]  
PUBLISHED: June 16, 2000 (20000616)  
INVENTOR(s): KIBUSE HARUO  
YOSHINAGA TOSHIAKI  
OTA YOSHIMI  
APPLICANT(s): HITACHI LTD  
APPL. NO.: 10-335279 [JP 98335279]  
FILED: November 26, 1998 (19981126)  
INTL CLASS: G06F-017/30

#### ABSTRACT

PROBLEM TO BE SOLVED: To obtain the system which assists intention decision making by a designer and reduces the load of **retrieval of information** relating to some event by providing a means which identifies a signal **relating** to a **generated** event among many signals if signals are **generated associatively** from many pieces of information.

SOLUTION: A mutual **relation** learning means 101 **generates** correlative data having correlative signals **selected** and simultaneous **generation frequency** data on **associatively generated** signals from the synchronism of the generation history of signal IDs included in log information of respective data bases. Then mutual **relation** data is **generated** by using those two pieces of data and supplied to a signal selecting means 102. The signal selecting means 102 selects only signals which have high correlation and high simultaneous generation frequencies in the signal pattern with an operator actually selects some information according to the mutual relation data and supplies important information



which is highly correlative to the original information to a display means  
103.

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(c) 2005 The HW Wilson Co.  
File 111:TGG Natl.Newspaper Index(SM) 1979-2005/Jun 02  
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File 438:Library Lit. & Info. Science 1984-2005/May  
(c) 2005 The HW Wilson Co  
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(c) 2005 ProQuest Info&Learning  
File 583:Gale Group Globalbase(TM) 1986-2002/Dec 13  
(c) 2002 The Gale Group  
File 603:Newspaper Abstracts 1984-1988  
(c) 2001 ProQuest Info&Learning  
? ds

Set	Items	Description
S1	1933521	REQUEST? OR QUERY? OR QUERIE? ? OR INQUIR? OR ENQUIR? OR QUESTION? OR RETRIEV?
S2	273675	S1(3N) (INFORMATION OR DATA OR OBJECT? ? OR CONTENT? ? OR E-CONTENT? ? OR TEXTDATA OR TEXT? ? OR TEXTUAL)
S3	4765557	FREQUEN? OR OFTEN OR RECUR? OR REOCCUR? OR RE() (OCCUR??? ? OR OCCUREN? OR OCCURR? OR CUR??? ? OR CUREN? OR CURR??? ? OR -CURREN?)
S4	150	RE() (CURRENT? OR CURRENC?)
S5	53543	S3:S4(3N) (SELECT???? ? OR CHOOS? OR CHOICE? OR PICK OR PICKS OR PICKED OR PICKING OR OPT OR OPTS OR OPTED OR OPTING)
S6	7038564	LIKE???? ? OR COGNATE? OR AKIN? OR ASSOCIAT? OR AFFILIAT? - OR HOMOLOG? OR KINDRED? OR ALLIED
S7	12727667	SIMILAR? OR RELAT???? ? OR RELATIONSHIP? OR ALIKE OR CONNECT???? ? OR ALIKE OR HOMOGEN? OR MATCH?
S8	364584	S6:S7(3N) (STRENGTH? OR STRONG? OR ROBUST? OR POWER? OR VIGOR? OR FORCE? OR POTENT OR VIGOR? OR STALWART?)
S9	648324	S6:S7(3N) (VALUE? ? OR CALCULAT? OR MEASUR??? ? OR MEASUREMENT? OR COMPUTAT? OR COMPUT??? ? OR ASSESSMENT? OR ASSESS??? ? OR APPRAIS?)
S10	538592	S6:S7(3N) (DETERMIN? OR DET? ? OR QUANTIF? OR DERIV??? ? OR DERIVATION? OR GENERAT???? ? OR EVALUAT? OR QUANTITAT? OR QUANTIS? OR QUANTIZ?)

S11	307091	S6:S7(3N) (ANALYS? OR ANALYT? OR ANALYZ?)
S12	359	S2 AND S5
S13	33	S12 AND S8:S11
S14	2240	S5 AND S8:S11
S15	217	S14 AND S1
S16	10	S13/20Q1:2005
S17	23	S13 NOT S16
S18	20	RD (unique items)
S19	63	S15/2000:2005
S20	100	S5(S)S1 AND S8:S11(S)S1
S21	31	S20/2001:2005
S22	59	S20 NOT (S21 OR S13)
S23	50	RD (unique items)

? t18/7/2,4,10

18/7/2 (Item 2 from file: 2)  
DIALOG(R)File 2:INSPEC  
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03547325 INSPEC Abstract Number: C90015074

**Title: Fixpoint strategies for deductive data bases**

Author(s): Guessarian, I.

Author Affiliation: CNRS, LITP, Paris Univ., France

Journal: Bulletin of the European Association for Theoretical Computer Science no.35 p.128-36

Publication Date: June 1988 Country of Publication: Austria

CODEN: BEASDU ISSN: 0252-9742

Language: English Document Type: Journal Paper (JP)

Treatment: Practical (P)

Abstract: Deductive data bases extend relational data bases in the following sense: they consist not only of the extensional definitions of the facts in the data base, but also of an intensional part, namely rules which allow to deduce new facts to be added to the **data** base. Henceforth, answering **queries** is not any more a mere **retrieval of information**, but may require computations. Very often, the rules of the deductive data base are simple transcripts of the properties of the data items one is trying to define, and hence are recursive rules. Then, the problem of efficiently **evaluating** the recursive queries **associated** with such rules becomes crucial. Many strategies try to optimize the evaluation of recursive queries by avoiding as much as possible irrelevant computations. One such strategy, efficient for most usual cases of recursive queries, is the computation of a well-chosen least fixpoint. The basic idea of the method is to 'push the **selection** through **recursion**', thus transforming binary relational queries into unary fixpoint equations. The advantage of the author's method, besides optimizing the answers to the queries by computing exclusively relevant facts, is its very wide range of applicability: it applies to most kinds of rules excluded by usual strategies. (16 Refs)

Subfile: C

18/7/4 (Item 4 from file: 2)  
DIALOG(R)File 2:INSPEC  
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00820439 INSPEC Abstract Number: B75038390, C75023727

**Title: Data versus information : information retrieval from data sequences**

Author(s): Reisig, G.H.R.

Author Affiliation: Space Inst., Univ. of Tennessee, Tullahoma, TN, USA

Journal: Kybernetes vol.3, no.4 p.231-40

Publication Date: Oct. 1974 Country of Publication: UK

CODEN: KBNTA3 ISSN: 0368-492X

Language: English Document Type: Journal Paper (JP)

Treatment: Theoretical (T)

Abstract: The paper is concerned with data sequences. The information parameter to be generally utilized for **information retrieval** in this category of data **analysis** is a meander-like step function. Fluctuations of the data sequence around its derived trend function have to be analyzed with regard to the given error corridor and the **selected** bandwidth of **frequencies**, or the sampling time for the data. This feature eliminates noise from the relevant data. Examples are given. (7 Refs)

Subfile: B C

18/7/10 (Item 4 from file: 34)  
DIALOG(R)File 34:SciSearch(R) Cited Ref Sci  
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01908687 Genuine Article#: JK869 Number of References: 22  
Title: INFERRING SELECTIVE HISTORY FROM MULTILOCUS FREQUENCY DATA -  
WRIGHT MEETS THE HAMILTONIAN  
Author(s): FOX GA; HASTINGS A  
Corporate Source: UNIV CALIF DAVIS, DIV ENVIRONM STUDIES/DAVIS//CA/95616;  
UNIV CALIF DAVIS, CTR POPULAT BIOL/DAVIS//CA/95616; UNIV CALIF  
DAVIS, INST THEORET DYNAM/DAVIS//CA/95616

Journal: GENETICS, 1992, V132, N1 (SEP), P277-288  
ISSN: 0016-6731

Language: ENGLISH Document Type: ARTICLE

Abstract: We describe a method to study characteristics of the dynamics of multilocus population genetic models without specifying the form of selection a priori. Our approach consists of specifying initial and final genotypic frequencies (either completely or partially) and then determining the minimum time to go from the initial condition to the final condition according to a continuous time genetic model, with arbitrary constraints on the strength and possibly the form of selection. In analyzing a two-locus, two-allele model with this approach, we show that-so long as  $r$  is not much larger than  $s$ -substantial linkage disequilibrium can be generated from an initial state of linkage equilibrium in a few hundred generations. We also show that unless recombination is much larger than selection, there is only weak dependence on  $r$  of the minimum time to reach a specified state. Thus, **similar strengths** of selection can lead to similar levels of disequilibrium over a fixed time and a range of small recombination rates. This implies that, within the level of a single gene, selection cannot in general be assumed to lead to any particular relationship between recombination rate and levels of disequilibrium. We indicate a number of other ways in which our method can be useful in asking theoretical **questions** and in interpreting **data**.

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? t23/7/2-3

23/7/2 (Item 1 from file: 2)

DIALOG(R) File 2:INSPEC

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6505018 INSPEC Abstract Number: B2000-03-6135-369, C2000-03-5260B-463

**Title: CBR for the reuse of image processing knowledge: a recursive retrieval/adaptation strategy**

Author(s): Ficet-Cauchard, V.; Porquet, C.; Revenu, M.

Author Affiliation: GREYA-ISMRA, Caen, France

Conference Title: Case-Based Reasoning Research and Development. Third International Conference on Case-Based Reasoning, ICCBR-99. Proceedings (Lecture Notes in Artificial Intelligence Vol.1650) p.438-52

Editor(s): Althoff, K.-D.; Bergmann, R.; Branting, L.K.

Publisher: Springer-Verlag, Berlin, Germany

Publication Date: 1999 Country of Publication: Germany xii+598 pp.

ISBN: 3 540 66237 5 Material Identity Number: XX-1999-02391

Conference Title: Case-Based Reasoning Research and Development. Third International Conference on Case-Based Reasoning, ICCBR-99

Conference Sponsor: American Assoc. Artificial Intelligence; AcknoSoft; BSR Consulting; DaimlerChrysler; et al

Conference Date: 27-30 July 1999 Conference Location: Seon Monastery, Germany

Language: English Document Type: Conference Paper (PA)

Treatment: Practical (P)

Abstract: The development of an image processing (IP) application is a complex activity, which can be greatly alleviated by user-friendly graphical programming environments. Our major objective is to help IP experts reuse parts of their applications. A first work towards knowledge reuse has been to propose a suitable representation of the strategies of IP experts by means of IP plans (trees of tasks, methods and tools). The paper describes the CBR module of our interactive system for the development of IP plans. After a brief presentation of the overall architecture of the system and its other modules, we explain the distinction between an IP case and an IP plan, and give the selection criteria and functions that are used for **similarity calculation**. The core of the CBR module is a search/adaptation algorithm, whose main steps are detailed: **retrieval** of suitable cases, **recursive** adaptation of the **selected** one and memorization of new cases. The system's implementation is presently completed; its functioning is described in a session showing the kind of assistance provided by the CBR module during the development of a new IP application. (12 Refs)

Subfile: B C

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23/7/3 (Item 2 from file: 2)

DIALOG(R) File 2:INSPEC

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6457624 INSPEC Abstract Number: B2000-02-6135-127, C2000-02-5260B-175

**Title: CBR for the management and reuse of image-processing expertise: a conversational system**

Author(s): Ficet-Cauchard, V.; Porquet, C.; Revenu, M.

Author Affiliation: GREYC-ISMRA, Caen, France

Journal: Engineering Applications of Artificial Intelligence vol.12, no.6 p.733-47

Publisher: Elsevier,

Publication Date: Dec. 1999 Country of Publication: UK

CODEN: EAAIE6 ISSN: 0952-1976

SICI: 0952-1976(199912)12:6L:733:MRIP;1-W

Material Identity Number: M728-1999-006

U.S. Copyright Clearance Center Code: 0952-1976/99/\$20.00

Document Number: S0952-1976(99)00041-X

Language: English Document Type: Journal Paper (JP)

Treatment: Practical (P)

Abstract: The development of an image processing (IP) application is a complex activity, which can be greatly alleviated by user friendly graphical programming environments. The major objective of the work presented is to help IP experts reuse parts of their applications. A first step towards knowledge reuse has been to propose a suitable representation of the strategies of IP experts by means of IP plans (trees of tasks, methods and tools). The paper describes the CBR module of an interactive system for the development of IP plans. After a brief presentation of the overall architecture of the system and its other modules, the authors explain the distinction between an IP case and an IP plan, and give the selection criteria and functions that are used for **similarity calculation**. The core of the CBR module is a search/adaptation algorithm, whose main steps are detailed: **retrieval** of suitable cases, **recursive** adaptation of the **selected** one and memorization of new cases. The system's implementation is presently completed; its functioning is described in a session showing the kind of assistance provided by the CBR module during the development of a new IP application. (19 Refs)

Subfile: B C

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File 674:Computer News Fulltext 1989-2005/May W5  
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Set	Items	Description
S1	8693916	REQUEST? OR QUERY? OR QUERIE? ? OR INQUIR? OR ENQUIR? OR Q- UESTION? OR RETRIEV?
S2	871603	S1(3N) (INFORMATION OR DATA OR OBJECT? ? OR CONTENT? ? OR E- CONTENT? ? OR TEXTDATA OR TEXT? ? OR TEXTUAL)
S3	4360059	FREQUEN? OR OFTEN OR RECUR? OR REOCCUR? OR RE() (OCCUR??? ? OR OCCUREN? OR OCCURR? OR CUR??? ? OR CUREN? OR CURR??? ? OR - CURREN?)
S4	14520	RE() (CURRENT? OR CURENC?)
S5	43977	S3:S4(3N) (SELECT???? ? OR CHOOS? OR CHOICE? OR PICK OR PIC- KS OR PICKED OR PICKING OR OPT OR OPTS OR OPTED OR OPTING)
S6	16794132	SIMILAR? OR RELAT???? ? OR RELATIONSHIP? OR ALIKE OR CONNE- CT???? ? OR ALIKE OR HOMOGEN? OR MATCH?
S7	17469064	LIKE???? ? OR COGNATE? OR AKIN? OR ASSOCIAT?
S8	1811613	AFFILIAT? OR HOMOLOG? OR KINDRED? OR ALLIED
S9	942839	S6:S8(3N) (STRENGTH? OR STRONG? OR ROBUST? OR POWER? OR VIG- OR? OR FORCE? OR POTENT? OR VIGOR? OR STALWART?)
S10	825240	S6:S8(3N) (VALUE? ? OR CALCULAT? OR MEASUR??? ? OR MEASUREM- ENT? OR COMPUTAT? OR COMPUT??? ? OR ASSESSMENT? OR ASSESS??? ? OR APPRAIS?)
S11	249973	S6:S8(3N) (DETERMIN? OR DET? ? OR QUANTIF? OR DERIV??? ? OR



DERIVATION? OR GENERAT???? ? OR EVALUAT? OR QUANTITAT? OR QUA-  
NTIS? OR QUANTIZ?)

S12	201110	S6:S8(3N) (ANALYS? OR ANALYT? OR ANALYZ?)
S13	98	S2(S)S5
S14	4	S13(S)S9:S12
S15	793	S5(S)S9:S12
S16	103	S15(S)S1
S17	103	S14 OR S16
S18	54	S17/2001:2005
S19	49	S17 NOT S18
S20	47	RD (unique items)
?		

File 9:Business & Industry(R) Jul/1994-2005/Jun 02  
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 File 16:Gale Group PROMT(R) 1990-2005/Jun 03  
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 File 47:Gale Group Magazine DB(TM) 1959-2005/Jun 03  
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 (c) 2005 The Gale Group

Set	Items	Description
S1	5511964	REQUEST? OR QUERY? OR QUERIE? ? OR INQUIR? OR ENQUIR? OR Q- UESTION? OR RETRIEV?
S2	1069455	S1(3N) (INFORMATION OR DATA OR OBJECT? ? OR CONTENT? ? OR E- CONTENT? ? OR TEXTDATA OR TEXT? ? OR TEXTUAL)
S3	3309329	FREQUEN? OR OFTEN OR RECUR? OR REOCCUR? OR RE() (OCCUR??? ? OR OCCUREN? OR OCCURR? OR CUR??? ? OR CUREN? OR CURR??? ? OR - CURREN?)
S4	10255	RE() (CURRENT? OR CURENC?)
S5	39874	S3:S4(3N) (SELECT???? ? OR CHOOS? OR CHOICE? OR PICK OR PIC- KS OR PICKED OR PICKING OR OPT OR OPTS OR OPTED OR OPTING)
S6	12945627	LIKE???? ? OR COGNATE? OR AKIN? OR ASSOCIAT? OR AFFILIAT? - OR HOMOLOG? OR KINDRED? OR ALLIED
S7	15585400	SIMILAR? OR RELAT???? ? OR RELATIONSHIP? OR ALIKE OR CONNE- CT???? ? OR ALIKE OR HOMOGEN? OR MATCH?
S8	670797	S6:S7(3N) (STRENGTH? OR STRONG? OR ROBUST? OR POWER? OR VIG- OR? OR FORCE? OR POTENT OR VIGOR? OR STALWART?)
S9	941275	S6:S7(3N) (VALUE? ? OR CALCULAT? OR MEASUR??? ? OR MEASUREM- ENT? OR COMPUTAT? OR COMPUT??? ? OR ASSESSMENT? OR ASSESS??? ? OR APPRAIS?)
S10	207615	S6:S7(3N) (DETERMIN? OR DET? ? OR QUANTIF? OR DERIV??? ? OR DERIVATION? OR GENERAT???? ? OR EVALUAT? OR QUANTITAT? OR QUA- NTIS? OR QUANTIZ?)
S11	164785	S6:S7(3N) (ANALYS? OR ANALYT? OR ANALYZ?)
S12	137	S2(S)S5
S13	5	S12(S)S8:S11
S14	503	S5(S)S8:S11
S15	39	S14(S)S1
S16	39	S13 OR S15
S17	13	S16/2001:2005
S18	26	S16 NOT S17
S19	22	RD (unique items)
		?